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PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
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FEE	TR	AN	SM	ITT	AL
	for	FY	200)4	

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

	(\$)	670	.00
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Complete if Known			
Application Number	10/670,009		
Filing Date	September 24, 2003		
First Named Inventor	COSGROVE, Daniel J.		
Examiner Name			
Art Unit	1645		
Attorney Docket No.	P04666US08		

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)			
Check Credit card Money Other None	3. ADDITIONAL FEES			
Deposit Account:	Large Entity Small Entity			
Deposit Account 26-0084	Fee Fee Fee Fee Description	e Paid		
Account 20-0084		5.00		
Deposit Account Name McKee, Voorhees & Sease, P.L.C.	1052 50 2052 25 Surcharge - late provisional filing fee or cover sheet			
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification			
Charge fee(s) indicated below Credit any overpayments	1812 2,520 1812 2,520 For filing a request for ex parte reexamination			
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action			
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action			
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month			
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month			
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month	75.00		
Fee Fee Fee Fee Fee Description Fee Paid Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month			
1001 770 2001 385 Utility filing fee	1255 2,010 2255 1,005 Extension for reply within fifth month			
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal			
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal			
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing			
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding			
SUBTOTAL (1) (\$) 0	1452 110 2452 55 Petition to revive - unavoidable			
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional			
Fee from Ext <u>ra Claims below</u> Fee Paid	1501 1,330 2501 665 Utility issue fee (or reissue)			
Total Claims -20** = X =	1 1502 480 2502 240 Design issue fee 1503 640 2503 320 Plant issue fee			
Independent Claims - 3** = X = =	1	30.00		
Multiple Dependent =	1807 50 1807 50 Processing fee under 37 CFR 1.17(g)	0.00		
Large Entity Small Entity	1806 180 1806 180 Submission of Information Disclosure Stmt			
Fee Fee Fee Fee Fee Description Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)			
1202 18 2202 9 Claims in excess of 20	1809 770 2809 385 Filing a submission after final rejection			
1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid	(37 CFR 1.129(a))			
1204 86 2204 43 ** Reissue independent claims	1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))			
over original patent	1801 770 2801 385 Request for Continued Examination (RCE)			
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application			
SUBTOTAL (2) (\$) 0	Other fee (specify)			
**or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 670.00			

SUBMITTED BY

Name (Print/Type)

HEIDI SINEBEL

Registration No. (Attorney/Agent)

Registration No. (Attorney/Agent)

Telephone 515-288-3667

Date September 16, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

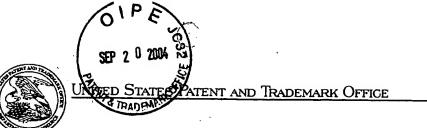
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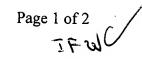
PTO/SB/21 (05-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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	Application (Value)	10/670,009
TRANSMITTAL	Filing Date	September 24, 2003
FORM	First Named Inventor	COSGROVE, Daniel J.
(to be used for all correspondence after initial filin	ng) Art Unit	1645
	Examiner Name	
Total Number of Pages in This Submission	50 Attorney Docket Number	P04666US08
	ENCLOSURES (Check all that	apply)
Fee Transmittal Form	✓ Drawing(s)	After Allowance communication to Group
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences
Amendment/Reply	Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
After Final	Petition to Convert to a Provisional Application	Proprietary Information
	Power of Attorney, Revocation	
Affidavits/declaration(s)	Change of Correspondence Addre	Status Letter Other Enclosure(s) (please
Extension of Time Request	Terminal Disclaimer	Identify below):
Express Abandonment Request	Request for Refund	
Information Disclosure Statement	CD, Number of CD(s)	
Certified Copy of Priority	Remarks	
		onal Application; Replacement Drawing (Figure 20)
Response to Missing Parts/	Authorization of Agent (4 sheets); Petition	oplication (5 pages); Power of Attorney or n under 37 CFR 1.47(a) to accept filing on behalf of
incomplete Application	nonsigning inventor; Declarations for sign inventor who cannot be reached (37 CFR	nature by joint inventors on behalf of nonsigning 1.47(a) (5 pages); Statement of Facts in Support of
Response to Missing Parts	Filing on Behalf of Nonsigning Inventor (3 Check for \$670.00	
	Check for \$670.00	
SIGNATI	JRE OF APPLICANT, ATTORNE	V OR ACENT
Fi		er, or agent
or Heidi S. Nebel, Reg. No	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Individual name McKee, Voornees & Sea	\$ 6 / P.L. 4 . / 	
Date September 16, 2004	2 1	
CEF	RTIFICATE OF TRANSMISSION	/MAILING
I hereby certify that this correspondence is bein	ng facsimile transmitted to the USPTO or	deposited with the United States Postal Service with
sufficient postage as first class mail in an envel the date shown below.	ope addressed to: Commissioner for Pate	ents, P.O. Box 1450, Alexandria, VA 22313-1450 on
Typed or printed name Heidi S. Nebel, R	Reg. No./37,719	
Signature	11/1/11/	Date September 16, 2004
	TIL PLOW	

This collection of information is required by 37 CFR 1.5. The information's required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.





UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.uspto.gov

APPLICATION NUMBER

FILING OR 371 (c) DATE

FIRST NAMED APPLICANT

ATTORNEY DOCKET NUMBER

10/670,009

09/24/2003

Daniel J. Cosgrove

P04666US08

CONFIRMATION NO. 4403

27407 MCKEE, VOORHEES & SEASE, P.L.C. ATTN: PENNSYLVANIA STATE UNIVERSITY

801 GRAND AVENUE, SUITE 3200

DES MOINES, IA 50309-2721

FORMALITIES LETTER
OC00000012373431

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Date Mailed: 04/16/2004

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The oath or declaration is missing.
 A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(e) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.

The application is informal since it does not comply with the regulations for the reason(s) indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

- Replacement drawings in compliance with 37 CFR 1.84 and 37 CFR 1.121 are required. The drawings submitted are not acceptable because:
 - More than one figure is present and each figure is not labeled "Fig." with a consecutive Arabic numeral (1, 2, etc.) or an Arabic numeral and capital letter in the English alphabet (A, B, etc.)(see 37 CFR 1.84(u)(1)). See Figure(s) 20.

SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$65 for a Small Entity

• \$65 Late oath or declaration Surcharge.

09/21/2004 SSITHIB1 00000026 10670009

02 FC:2051

65.00 OP

Replies should be mailed to:

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Alexandria VA 22313-1450

A copy of this notice MUST be returned with the reply.

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PART 2 - COPY TO BE RETURNED WITH RESPONSE